

IN THE CLAIMS:

Please add the following new claims.

Sub
-- 47. A method for determining the suitability of a communication line for xDSL service via single-ended analysis, comprising:

obtaining a return waveform by using a TDR at a single end of the wire communication line;

determining a transfer function based on the return waveform, the transfer function representing a signal strength for each of the plurality of xDSL frequency bands; and

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analyzing the transfer function so as to qualify the wire communication line for xDSL use.

48. The method according to claim 47, wherein the step of determining includes:

deriving a plant map of the wire communication line from the return waveform, the plant map representing the structural layout of the wire communication line; and

deriving the transfer function by performing circuit modeling analysis on the plant map.

49. The method according to claim 47, wherein the step of determining includes comparing the return waveform against a

library of known transfer functions that represent known wire plant models to estimate the transfer function of the wire communication line.

50. The method according to claim 47, further comprising:
obtaining a noise signal over the plurality of xDSL frequency bands of the wire communication line;
wherein the step of analyzing includes qualifying the wire communication line based on the determined transfer function and the obtained noise signal. --